

CLAIMS:

1. A method for generating a set of transform rules to be used in transforming web-based information from a source page format to a web-enabled receiving device template page format, the transformation occurring in response to a request for the web-based information by the receiving device, the method comprising:
 - displaying the source page and the template page using a graphical user interface;
 - identifying elements within the information displayed on the source page and the template page;
 - recording user actions for arranging the elements on the source page and the template page, the user actions being recorded onto at least two stacks, with certain stacks being associated with certain user actions;
 - using the at least two stacks as the basis for supporting the user actions;
 - generating chains of elements from the at least two stacks;
 - providing XSLT from the generated chains; and
 - generating the set of transform rules for the source page according to the source page URL, the XSLT, and the receiving device.
2. The method of Claim 1, wherein the at least two stacks include a redostack and an undostack.
3. The method of Claim 2, wherein the supported user actions include undo and redo actions.
4. The method of Claim 1, wherein the chains include at least two kinds including Deleted Chain and Sequence Chain.
5. The method of Claim 1, wherein the steps include: providing a user interface that includes two frames displayed in a browser.
6. The method of Claim 5, wherein the two frames include a left frame, and the steps

include loading the template page onto the left frame.

7. The method of Claim 5, wherein the two frames include a right frame, and the steps include loading the source page into the right frame.

8. The method of Claim 5, wherein the steps include adding identifier and path information as the attributes of each element in the two pages.

9. The method of Claim 5, wherein the user interface further includes the step of providing at least four buttons in the user interface including Undo, Redo, ViewXSLT, and Finish.

10. The method of Claim 9, wherein when the user clicks Undo, the steps include canceling the latest action.

11. The method of Claim 9, wherein when the user clicks Redo, the steps include restoring the latest Undo action.

12. The method of Claim 9, wherein when the user clicks ViewXSLT, the steps include the client session requesting the server session to generate XSLT according to the user actions.

13. The method of Claim 9, wherein when the user clicks Finish, the steps include the client session requesting the server session to generate XSLT and RDF for this page.

14. The method of Claim 1, wherein one user action includes a keystroke for inserting the source element before the target element.

15. The method of Claim 1, wherein one user action includes a keystroke for inserting the source element after the target element.

16. The method of Claim 1, wherein one user action includes a keystroke for moving

the source element to an absolute x, y position.

17. The method of Claim 1, wherein one user action includes a keystroke for deleting the source element.

18. The method of Claim 1, wherein one user action includes a keystroke for replacing the target element with the source element.

19. The method of Claim 1, wherein one user action includes a keystroke for changing the attributes of the source element.

20. The method of Claim 1, wherein one user action include a keystroke for replacing the value of the source element with a new value.

21. The method of Claim 1, wherein one user action includes a keystroke for inserting the source element just after the start tag of the target element.

22. The method of Claim 1, wherein one user action includes a keystroke for inserting the source element just before the end tag of the target element.